

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)							February 2003				
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment							
COST (In Thousands)		FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
Total Program Element (PE) Cost		90579	86449	67283	66748	66368	96495	106257	114238	Continuing	783122
548	MIL SUBSISTENCE SYS	1800	1799	1985	1984	3361	1450	965	964	Continuing	16002
667	LAND WARRIOR	59262	57633	49163	48293	40890	69983	79821	87784	0	552325
668	SOLDIER ENHANCE PGM	13545	13510	10144	11999	14104	16054	16229	16326	0	125673
C40	SOLDIER SUPPORT EQUIPMENT - ED	11083	12197	2891	21	0	0	0	0	0	34828
L40	CLOTHING & EQUIPMENT	4889	1310	3100	4451	8013	9008	9242	9164	0	54294
<p><u>A. Mission Description and Budget Item Justification:</u>This program element (PE) supports System Development and Demonstration (SDD) and Non-Developmental Item (NDI) evaluation of unit/organizational equipment, clothing, individual equipment, field shelters, field service equipment, subsistence, and food service equipment that will enhance soldier efficiency, effectiveness, lethality, sustainability and survivability. The system integration of demonstrated subsystems, components, or NDI in order to reduce integration risks associated with system development and demonstration of various commodities, components, and technologies are also included in this PE. The program element also supports demonstration of engineered development models and the associated developmental and operational testing of systems, components, and commodities prior to their transition to the Production and Deployment phase to include a new generation of field service support items of soldier equipment. The Land Warrior program will produce the first fully integrated fighting system for dismounted combat soldiers. The Soldier Enhancement Program supports soldier items that will transition into production in three years or less.</p> <p>This system supports the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).</p>											

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)**February 2003****BUDGET ACTIVITY****5 - System Development and Demonstration****PE NUMBER AND TITLE****0604713A - Combat Feeding, Clothing, and Equipment**

<u>B. Program Change Summary</u>	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	90244	94474	65466	56310
Current Budget (FY 2004/2005 PB)	90579	86449	67283	66748
Total Adjustments	335	-8025	1817	10438
Congressional program reductions		-5072		
Congressional rescissions		-497		
Congressional increases				
Reprogrammings	601			
SBIR/STTR Transfer	-266	-2456		
Adjustments to Budget Years			1817	10438

FY04 and FY05 increases support the LW -Stryker Interoperable Capability Increments (LW-SI) requirement to meet key performance parameters for Army Battle Command System (ABCS) Interoperability, as well as weight and power reduction initiatives.

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								February 2003		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 548	
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
548 MIL SUBSISTENCE SYS	1800	1799	1985	1984	3361	1450	965	964	Continuing	16002
<p><u>A. Mission Description and Budget Item Justification:</u> This project supports the development and demonstration and Non-developmental Item (NDI) evaluation of combat feeding equipment to enhance soldier efficiency and survivability, and to reduce food service logistics requirements for all four services. The project supports multi-fuel, rapidly deployable field food service equipment initiatives and engineering and manufacturing development to improve equipment through enhanced safety in food service, and decreased fuel and water requirements. This project develops critical enablers that support the Army's Transformation Campaign Plan Axes I (Trained and Ready), Line of Operation 2 (Modernization and Re-capitalization) by maintaining readiness through fielding and integrating new equipment. Also Line of Operation 3 (Manning the Force) by enhancing the field soldier's well-being and providing soldier usable equipment; Axes II (transforming the Operational Force), Line of Operation 9 (Deploying and Sustaining) by reducing sustainment requirements, related Combat Support/Combat Service Support (CS/CSS) demands on lift, combat zone footprint, and costs for logistical support.</p> <p>This project develops critical enablers that support the Legacy-to-Objective transition path of the Army's Transformation Campaign Plan.</p>										
<u>Accomplishments/Planned Program</u>							<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Conduct technical and operational testing of thermostatically controlled Modern Burner Unit (MBU), and incorporate cold weather kit and thermostatic control into the burner production contract. Analyze combustion by-products in the kitchen environment for design of ventilation configuration.							0	340	0	0
Tested four new/advanced food service equipment items for shipboard applications. Provided two of these for shipboard testing. The Accutemp Griddle has been accepted and is being procured by several ships including the USS Cole. Transitioned Convenience Food Logistics Model (CFLM) program to Navy for use in optimizing use of prepared food and freezer storage space. Prepare evaluation report on labor saving equipment and food technologies for the Navy. Continue evaluation of new shipboard food service equipment such as stainless steel liner in convection oven to improve galley efficiencies, reduce costs, and improve quality of life.							302	277	387	0
Conduct technical and operational testing of prototype kitchen International Standards Organization (ISO) container that is compatible with the Army Load Handling System (ALHS) without the need for additional material handling equipment.							0	153	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)			February 2003			
BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT	
5 - System Development and Demonstration		0604713A - Combat Feeding, Clothing, and Equipment			548	
<u>Accomplishments/Planned Program (continued)</u>		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
Conducted technical, user testing, and completed Technical Data Package (TDP) for Single Pallet Expeditionary Kitchen (SPEK), transition to Air Force for procurement. Upgrade Single Pallet Expeditionary Kitchen feeding capabilities to serve Unitized Group Ration - A's (UGR-A) to expand menu variety and extend initial kitchen deployment; conduct user tests; complete technical data package and transition to Air Force. (FY05)		250	68	192	285	
Completed user testing of upgraded Tray Ration Heater with low cost burner and support equipment. Conducted in-house technical tests. Complete in-house and user testing of upgraded Tray Ration Heater System to demonstrate enhanced mobility, increased ration preparation capability and cost savings; complete modifications, prepare technical data package and deliver prototype system to the Marine Corps. Develop a water recycling system for the Tray Ration Heater to conserve water and reduce Wastewater disposal. Complete user testing, prepare technical data package and transition to Marine Corps. Complete model for equipment selection for retrofit and integration into new ship designs.		350	260	197	0	
Complete development of technical data for use in a rebuild program optimizing the future Mobile Kitchen Trailer configuration. Initiate development of an integrated power co-generator for mobile field kitchens to reduce operating and support costs.		0	0	437	0	
Completed TDP for Field Kitchen Equipment Efficiency Upgrades and transitioned into procurement.		54	0	0	0	
Completed the design and initiated the fabrication of an Advanced Design Refrigerator prototype. Conduct technical tests of Advanced Design Refrigerator and user tests with the Air Force. Design and develop a highly mobile refrigeration system that will maximize storage capabilities and enhance transportability and thermal efficiency. Complete developmental and operational testing; prepare performance specification and transition to Air Force.		350	231	192	90	
Review and update the Initial Deployment Kitchen (IDK) to reduce power requirements, and reconfigure in an easier to transport shelter on the C130 aircraft.		0	0	0	351	
Conducted reliability analysis on fielded Modern Burner Units (MBUs) and completed fabrication, conducted field testing, and transitioned changes to procurement for low noise, low heat prototype Modern Burner Unit (MBU).		201	0	0	0	
Design/Evaluate new food service equipment for Navy 21 (Surface,Subs), transition to Navy, complete model for equipment selection for retrofit and integration into new ship designs.		0	470	0	0	
Awarded Research and Development (R&D) contract, completed the design, and initiated fabrication of prototype kitchen International Standard Organization (ISO) container that is compatible with the Army Load Handling System without the need for additional material handling equipment.		293	0	0	0	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								February 2003		
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT 548	
<u>B. Other Program Funding Summary</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
RDTE, 0603747.610, Food Adv Dev	3627	3569	3771	3847	3441	1872	2129	2195	Continuing	Continuing
OPA3, M65803, Kitchen, Containerized, Field	3813	11984	7287	7032	7893	0	0	0	0	38009
OPA 3, M65802, Sanitation Center, Field Feeding	2771	9616	8734	9643	8738	8933	9598	9091	Continuing	Continuing
OPA3, M65801, Refrigerated Containers	1066	0	0	5249	5178	10057	10230	10415	Continuing	Continuing
<u>C. Acquisition Strategy:</u> Complete System Development and Demonstration of food items and equipment for transition into competitive procurement contract.										

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 548		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Vraious combat feeding eq, multi-fuel and water eq	In-House	SBCCOM	9439	725	1-4Q	1086	1-4Q	936	1-4Q	Continue	Continue	Continue
b . Contracts	Various	Various	2078	242	2-4Q	395	1-4Q	345	1-4Q	Continue	Continue	Continue
c . PEO CS&CSS	In-House	PM_Forces Sustainment System (FSS)	0	137	1-4Q	130	1-4Q	200	1-4Q	Continue	Continue	Continue
Subtotal:			11517	1104		1611		1481		Continue	Continue	Continue
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0
Remarks: Not Applicable												

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 548		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPR	TECOM/OEC	3492	534	2-4Q	284	1-4Q	358	1-4Q	Continue	4668	Continue
Subtotal:			3492	534		284		358		Continue	4668	Continue
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Project Ofc Management	In-House	SBCCOM	907	161	2-4Q	90	1-4Q	145	1-4Q	Continue	1303	Continue
Subtotal:			907	161		90		145		Continue	1303	Continue
Project Total Cost:			15916	1799		1985		1984		Continue	Continue	Continue

Schedule Profile Detail (R-4a Exhibit)							February 2003	
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT 548
<u>Schedule Detail</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Deliver prototype Tray Ration Heater to Marine Corps.			4Q					
Transition Navy 21 service equipment to Navy for production.		4Q						
Complete TDP for SPED and transition to production.		4Q						
Conduct Technical and Operational Evaluations on Field Kitchen Equipment Efficiency Upgrades	4Q							
Complete design and fabrication of Advanced Design Refrigerator - 1200 prototype	3Q							
Conduct Developmental Testing for the Advanced Design Refrigerator - 1200	4Q							
Transition noise reduction and heat output changes to MBU production	4Q							
Conduct Field Testing for the Assault Kitchen				4Q				

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								February 2003		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT 667		
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
667 LAND WARRIOR	59262	57633	49163	48293	40890	69983	79821	87784	0	552325
<p><u>A. Mission Description and Budget Item Justification:</u> This project is currently in the system development and demonstration phase, Land Warrior (LW) establishes the Infantry soldier as the Army's unique weapons platform. It is a first generation integrated fighting system for soldiers that provides combat overmatch for the five types of Infantry (air assault, airborne, light, mechanized, and ranger), and Army Special Operations Forces in the close and personal fight. Land Warrior provides enhanced capabilities to the dismounted soldier. LW - Initial Capability (LW -IC) development takes maximum advantage of Commercial-Off-The-Shelf (COTS), as well as Government-Off-The-Shelf (GOTS) components and technologies, to support a rapid prototyping process. LW -IC provides the foundation system upon which other warrior and Future Warrior integrated systems will be based, and supports Marine Corps and Special Operations Forces. LW Stryker Interoperable Capability Increments (LW -SI) include Stryker integration, tactical internet connectivity/interface with the Army Battle Command System, Future Combat System (FCS) interoperability, and weight/power advancements. LW Advanced Capability Increments (LW -AC) systems will take advantage of technological advancements transitioned from the Science and Technology (S&T) community, Objective Force Warrior (OFW), and includes advanced soldier technologies such as image fusion and robotic mules.</p> <p>This program supports the Legacy-to-Objective transition path of the Transformation Campaign Plan.</p>										
<u>Accomplishments/Planned Program</u>						<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
Fabricate LW systems that will be used for development testing and operational testing for LW-IC. Conduct contractor acceptance testing to validate system functionality and integration prior to formal government testing. Provide contractor logistics support of hardware and software on test units during early fightability assessments and safety testing. Obtain preproduction prototype Multi Function Laser Systems (MFLs) that will be government furnished equipment (GFE) to support LW-IC and LW-SI system.						44856	21885	1620	0	
Incorporate software and hardware fixes from Development Test/Initial Operational Test and Evaluation (DT/IOTE) into LW-SI design. Begin LW -SI development which addresses LW to Stryker integration to meet KPP for Army Battle Command System (ABCS) interoperability with Light Digital Tactical Operations Center (TOC) and to provide on-board power recharging capability in interim force vehicle for LW equipped soldiers. Fabricate LW -SI systems that will be used for development and operational testing. Initiate development efforts for follow on LW-AC to support the objective force Future Combat System.						0	9865	26725	30040	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)			February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment			PROJECT 667	
<u>Accomplishments/Planned Program (continued)</u>		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
Conduct airborne certification, user fightability assessment, and obtain necessary safety releases. Conduct DT to measure reliability and performance and complete test reports. Conduct operational test readiness reviews (OTRR). Conduct IOTE and conduct government system assessment of operational test results. Complete development of training program of instruction, lesson plans, and computer based training and interactive multimedia instruction. Develop range, targetry, and marksmanship tasks and training, tactics and procedures (TTP). Update and transition training package and manuals to electronic format. Complete development of interactive training scenarios and evaluate integrated training environment. Conduct tactics training, operators/leaders training, and direct support maintenance training prior to IOTE. Finalize training materials and training package. Develop and apply Training Aids, Devices, Simulators and Simulations (TADSS) to meet VCSA guidance.		4477	14345	9565	13037	
Program management and systems engineering support for overall program efforts. Continue operation of PM Land Warrior - Fort Monmouth, and maintain minimal activity at PM Soldier LW Forward at Fort Bragg. Initiate procurement planning efforts for follow on LW competitive contracts. Conduct Source Selection Evaluation Board (SSEB) process for production contract award. Conduct technical and program reviews for In Process Review (IPR) or Army System Acquisition Review Council reporting and briefings. Continue LW demonstrations to other countries to demonstrate system capability and functionality. Support to NATO Land Group 3 and other partnered countries to ensure compatibility with potential multinational military operations.		9929	11538	11253	5216	
Totals		59262	57633	49163	48293	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

February 2003

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604713A - Combat Feeding, Clothing, and Equipment

PROJECT

667

B. Other Program Funding Summary	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
RDTE, 0603001, DJ50, Future Warrior Technology Integration	36635	35913	83745	81711	84967	69302	77692	78157	Continuing	Continuing
OPA3, M80500, Land Warrior	0	0	96935	114885	139929	186880	109474	128956	Continuing	Continuing
RDTE, 0603747, D669 Clothing and Equipment	4661	4881	9046	8796	8647	8747	9995	10194	Continuing	Continuing
RDTE, 0604713 , DL40 Clothing and Equipment	4412	4651	3200	4595	8295	9295	9513	9434	Continuing	Continuing
OPA4, MS3610, Land Warrior Initial Spares	0	0	686	758	873	992	503	131	Continuing	Continuing
RDTE, 0604817, D902 Combat Identification	2906	5215	0	0	0	0	0	0	Continuing	Continuing

C. Acquisition Strategy: The LW Program takes maximum advantage of components available from other government agencies as well as Commercial-Off-the-Shelf (COTS) components and technologies. The program minimizes the use of LW -unique hardware and software using an open systems architecture. This architectural approach will provide greater flexibility to incorporate technology upgrades as they become available, reduce intellectual and proprietary rights issues, and reduce development and support costs. LW development effort will utilize Other Transactions Agreement through FY03 as the contract vehicle to increase the level of commercial company involvement and will maximize the rapid prototyping process. The LW system development will conform to standards identified in Interface Control Documents (ICD's), and System Performance Specifications, which will be controlled by the Government. The follow-on production effort will utilize standard FAR-based full/open competition (best value, price based approach) based on government provided system level performance specifications and system level ICD's. The LW total procurement objective is approximately 48,801 units. The LW Program supports the Chief of Staff of the Army's (CSA) vision of establishing lethal forces through the use of commercial technologies to lighten the force; increase soldier lethality, and making the force more survivable, more mobile, and more deployable.

This program supports the Legacy-to-Objective transition path of the Army's Transformation Campaign Plan.

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 667		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Helmet Mounted Display/Daylight Video Sight	FFP	Kaiser Electronics, Carlsbad, CA/KOPIN	2295	0		0		0		Continue	2295	Continue
b . Other Transactions Agreement (OTA)	FFP	LW OTA Consortium, Vienna, VA	80727	19385	1Q	0		0		Continue	100112	72267
c . Global Positioning Systems Cards/Antennas	T&M	ARINC, Annapolis, MD	780	200	2Q	0		0		0	980	880
d . Develop LW-SI (M&S,Stryker integration, etc.)	TBD	TBD	0	7000	1Q	21530	1Q	21311	1Q	Continue	49841	Continue
e . Ruggedized Batteries/Rechargers	Time & Materials	CMR Technologies, Island Heights, NJ/ARINC, Annapolis, MD	5488	536	1Q	0		0		Continue	6024	Continue
f . Multifunction Laser/Thermal Weapon Sights, etc.	MIPR	PM Night Vision, Fort Belvoir, VA	1064	2650	1Q	1620	1Q	0		0	5334	5484
g . ORACLE - Software Licenses	FFP	DLT Solutions, Herndon, VA	576	293	2Q	0		0		0	869	869
h . Security DAA SME/Security Certif & Accreditation	Task Order	Various	305	160	1Q	0		0		0	465	465
i . Modelling and Simulation/SW Blocking	TBD	TBD	0	0	1Q	4395	1Q	6677	1Q	Continue	11072	Continue

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 667		
I. Product Development (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
j . LW-AC Development	TBD	TBD	0	0		800	1-2Q	2052	1Q	Continue	2852	Continue
k . Computer Based Training/Interactive Multimedia Ins	IDIQ/MIPR	OMEGA, Columbus GA; STRICOM, Orlando, FL	650	2000	2Q	2900	1-2Q	2100	1-2Q	0	7650	7650
Subtotal:			91885	32224		31245		32140		Continue	187494	Continue
Remarks: Award dates covering multiple quarters reflect multiple awards.												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . PM Land Warrior-North Program Support	MIPR	CECOM, Fort Monmouth, NJ	12020	400	1-2Q	400	1-2Q	250	1-3Q	Continue	13070	Continue
b . TSM -Soldier program support	MIPR	TSM Soldier, Fort Benning, GA	1550	350	1-3Q	350	1-3Q	100	1-3Q	Continue	2350	Continue
c . Modern Tech Inc. - support contractors	Task Order	Modern Tech Inc., Springfield, VA	10124	750	1Q	750	1Q	350	1Q	Continue	11974	Continue
d . System Engineering support	T&M	Various	1290	540	1Q	300	1Q	300	1Q	Continue	2430	Continue

ARMY RDT&E COST ANALYSIS(R-3)								February 2003				
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment						PROJECT 667		
II. Support Cost (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
e . PM Land Warrior in-house support	In-house	PM Land Warrior, Fort Belvoir, VA	11458	736	1-4Q	613	1-4Q	650	1-4Q	Continue	13457	Continue
f . Physical Integration Team - LW integration support	MIPR	SBCCOM - Natick, MA	482	150	1Q	150	1Q	0		Continue	782	Continue
g . NVESD Program Matrix Support	MIPR	CECOM NVESD, Fort Belvoir, VA	899	300	1-3Q	170	1-3Q	240	1-3Q	Continue	1609	Continue
h . Other Government Agencies Program Support	MIPR	Various	285	300	1-2Q	150		0		Continue	735	Continue
Subtotal:			38108	3526		2883		1890		Continue	46407	Continue
Remarks: Buys government and contract engineering and logistical support for overall program support.												

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 667		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Testing Organizations - Developmental testing	MIPR	ATC, TTC/YPG/DTC/EPG/ ARL-SLAD, etc.	5812	4210	1-2Q	2500	1-2Q	635	1-2Q	Continue	13157	Continue
b . Testing Organizations - Operational testing/evaluation	MIPR	OTC, AEC	8343	9007	1-3Q	989	1-3Q	7252	1-3Q	Continue	25591	Continue
c . Test Equip/Support/Soldiers	Various	Various	4208	346	1-2Q	176	1-4Q	200	1-4Q	Continue	4930	Continue
d . Airworthiness/Airborne Certification	MIPR	Various	170	370	1-2Q	0		750	1-2Q	1200	2490	3000
e . Test Program Sets/Direct Support Manuals/Built in test	MIPR/T&M	Huntsville, AL; Fort Monmouth, NJ	50	405	1-2Q	0		0		0	455	552
Subtotal:			18583	14338		3665		8837		Continue	46623	Continue

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 667		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . PM Soldier Warrior oversight of LW program - Various	In-House/Task Order	PM Soldier Warrior, Fort Belvoir, VA	11597	4495	1-4Q	6120	1-4Q	2626	1-4Q	Continue	24838	Continue
b . Management Support/Cost Analysis Support	Task Order	Wexford Group, Vienna, VA/Camber Corp	2644	200	1Q	400	1Q	400	1Q	Continue	3644	Continue
c . SW IV&V	Task Order	CYIOS, Washington, DC	1548	0		0		0		0	1548	1897
d . ADP Support/Equipment	Various	Various	356	0		0		0		0	356	356
e . Support Contractors	Task Order	BRTRC, Fairfax, VA	839	0		0		0		Continue	839	Continue
f . SBCCOM Spt	MIPR	SBCCOM-Natick, MA/APG, MD	2640	0		0		0		0	2640	5992
g . PEO Support/DA Support	Task Order	Camber Corp/SY-Tech, Springfield, VA	808	700	1-4Q	2000	1-4Q	1800	1-4Q	Continue	5308	Continue
h . Demo Maintenance Support	GSA	Exponent, Menlo Park, CA	825	850	1-4Q	850	2-3Q	100	1-4Q	Continue	2625	Continue
i . Power Initiatives	Various	Various	300	1300	1-3Q	2000	1-3Q	500	1-2Q	Continue	4100	Continue
j . Engineering support - Schools	MIPR	Various	147	0		0		0		0	147	547

ARMY RDT&E COST ANALYSIS(R-3)								February 2003				
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 667		
IV. Management Services (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			21704	7545		11370		5426		Continue	46045	Continue
Remarks: Award dates covering multiple quarters reflect multiple awards.												
Project Total Cost:			170280	57633		49163		48293		Continue	326569	Continue

Schedule Profile Detail (R-4a Exhibit)							February 2003	
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment			PROJECT 667	
<u>Schedule Detail</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Award Developmental Contract/Follow On Options - SI	2Q	2Q	1Q	1Q				
Conduct LW Preliminary Design Review (PDR) (LW -SI) - repetitive event due to spiral development		3Q	4Q					
Conduct LW Critical Design Review (CDR) (LW -SI) - repetitive event due to spiral development		1Q		1Q				
Deliver prototypes for government testing	2-4Q	1-2Q	2Q	1-4Q	1Q			
Conduct Safety Testing and obtain safety releases	3-4Q	1Q	2-4Q	4Q	1Q			
Conduct developmental test planning/testing and prepare reports	2-4Q	1-4Q	1-4Q	1-2Q	1-2Q			
Conduct Initial Operational Test and Evaluation (IOTE)		3-4Q		1-2Q	2-4Q			
Milestone C (ASARC)		4Q	1Q		4Q			
Full Rate Production (FRP)			1Q	4Q				3Q
Production Contract Award/Subsequent Options				1Q	1Q	1Q	1Q	1Q
First Unit Equipped (FUE)			4Q	4Q			4Q	
Initial Operational Capability (IOC) - IC/SI				4Q	4Q			
Fielding			1-4Q	1-4Q	1-4Q	1-4Q	1-4Q	1-4Q

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								February 2003		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 668	
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
668 SOLDIER ENHANCE PGM	13545	13510	10144	11999	14104	16054	16229	16326	0	125673
<p><u>A. Mission Description and Budget Item Justification:</u> This project supports accelerated integration, modernization, and enhancement efforts of lighter, more lethal weapons, and improved Soldier items including lighter, more comfortable load-bearing equipment, field gear, survivability items, communications equipment, and navigational aids. Soldiers are managed in three categories: dismounted Soldiers, combat crews (air and ground), and other Soldiers. Projects are generally completed in three years or less.</p> <p>This program supports the Legacy-to-Objective and Legacy-to-Interim transition path of the Transformation Campaign Plan (TCP).</p>										
<u>Accomplishments/Planned Program</u>							<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>
Completed evaluation/type classified/transition into production for several efforts to include: 5.56 Non-Lethal Muzzle Launched Ordnance, M240B Combat Ammunition Pack, XM107 Semi-Automatic Anti-Materiel Rifle, Collapsible Grappling Hook, Combined Camouflage Face Paint(Compact), Concealable Stab Protective Body Armor, Tactical Search Mirrors, Family of Batons and Night Sticks, Boot Gaiters, Survival Egress Air (SEA) MK 2.0, and Protective Gloves.							4507	0	0	0
Continued evaluation/procured prototypes and/or test for several efforts such as: Close Combat Mission Capability Kit, M84 Reloadable Fuze, XM107 Sniper Ammunition, M203 Grenade Launched Rail System, Integrated Laser White Light Pointer, Parachutists Drop Bag, Camouflage Uniform System for Soldiers, Tactical Assault Ladder System, Neck Shield, Improved Combat Shelter, and NBC Compatible Drinking System.							4329	0	0	0
Initiated market surveys and/or evaluations for: M9 Pistol Rail, Collapsible Buttstock for M249 Machine Gun, Hand Thrown Stingball Grenade, Individual Riot Control Agent Disperser, Body Restraint, Modular Glove, Aircrew Immersion Coveralls, Aircrew Survival/Egress Knife, and Tactical Thigh Holster.							2773	0	0	0
Complete evaluation/type classify/transition to production for several efforts such as: M203 Grenade Launched Rail System, XM107 Sniper Ammunition, M84 Reloadable Fuze, Integrated Laser White Light Pointer, Parachutists Drop Bag, Individual Riot Control Agent Disperser, Tactical Assault Ladder System, Modular Glove, Combat Uniform for Soldiers, Neck Shield, Tactical Thigh Holster, Body Restraint, POL Handlers Glove System, Aircrew Survival/Egress Knife, Improved Combat Shelter, NBC Compatible Drinking System, and LE/SRT Civil Disturbance Equipment Bag.							0	1319	0	0

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)			February 2003			
BUDGET ACTIVITY		PE NUMBER AND TITLE			PROJECT	
5 - System Development and Demonstration		0604713A - Combat Feeding, Clothing, and Equipment			668	
<u>Accomplishments/Planned Program (continued)</u>		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
Continue evaluation/procure prototypes: Close Combat Mission Capability Kit, M9 Pistol Rail, Collapsible Buttstock for M249 Machine Gun, Hand Thrown Stingball Grenade, Under the Barrel Shotgun, and Commanders Digital Assistant.		0	8316	0	0	
Initiate market surveys and/or evaluations for several efforts such as: Glove Light Duty Utility, 12-gauge Peacekeeping Round, Water Purification Pen, Individual Ration Heater System, Standoff Blast Resistent Footwear System, and Infantry Wall Breaching Kit.		0	2520	0	0	
Complete evaluation/type classify/transition into production for the: Close Combat Mission Capability Kit, M9 Pistol Rail, Collapsible Buttstock for M249 Machine Gun, Hand Thrown Stingball Grenade, and Face Paint (Stick), Under the Barrel Shotgun, and Commanders Digital Assistant.		0	0	3219	0	
Continue evaluation/procure prototypes for the: Glove Light Duty Utility, 12-gauge Peacekeeping Round, Water Purification Pen, Individual Ration Heater System, Standoff Blast Resistent Footwear System, and Infantry Wall Breaching Kit.		0	0	2581	0	
Initiate market surveys and/or evaluations on new items to commence development and demonstration. New items started will continue evaluation/procure prototypes.		0	0	2150	6325	
Complete evaluation/type classify/transition into production for the: Glove Light Duty Utility, 12-gauge Peacekeeping Round, Water Purification Pen, Individual Ration Heater System, Standoff Blast Resistent Footwear System, and Infantry Wall Breaching Kit.		0	0	0	3545	
Continue In-house engineering support services, computer services, conduct technical evaluation and program reviews.		1936	1355	2194	2129	
Totals		13545	13510	10144	11999	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)

February 2003

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604713A - Combat Feeding, Clothing, and Equipment

PROJECT

668

B. Other Program Funding Summary	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
OPA3, MA6800, Soldier Enhancement	3127	2421	4286	4726	4816	8952	7015	3314	Continuing	Continuing
OPA2, BA5300, Soldier Enhancement	4850	11397	8025	8048	8294	14368	8282	4351	Continuing	Continuing
WTCV, GC0076, Small Arms (SEP)	301	1954	1140	1024	2168	2055	3394	999	Continuing	Continuing
WTCV, GZ1290, Squad Automatic Wpn (Mods)	4372	4049	5096	805	566	372	19726	4063	Continuing	Continuing
WTCV, GZ2800, M16 Rifle Mods	2085	0	2369	2351	2650	0	3901	0	Continuing	Continuing
WTCV, GB3007, M4 Carbine Mods	0	9111	6660	7399	5933	6137	4932	0	0	40172
WTCV, G01500, Sniper Rifle	2118	8763	8753	8701	8698	7898	0	0	0	44931
WTCV, GC0925, Mods	1243	803	2220	2201	489	488	488	487	Continuing	Continuing
PAA, F47500, 7.62mm AP	2395	2414	400	400	400	400	0	0	0	71517
PAA, F47600, 5.56mm AP	3526	3559	1600	1600	600	600	0	0	0	24464
PAA, F00900, 40mm Canister	0	5548	0	0	0	0	0	0	0	5548
PAA, E84900, XM84 Stun Grenade	2381	0	0	0	0	0	0	0	0	5775
PAA, E86400, 12 Gauge Non Lethal	0	0	0	0	0	0	0	0	0	821
PAA, E91100, XM95 Cartridge, Non Lethal Crowd	4564	0	0	0	0	0	0	0	0	6838
PAA, E89000, 40mm Non Lethal	1960	0	0	0	0	0	0	0	0	7854
OMA, 121017, Central Funding & Fielding	79515	72427	86050	87492	91526	115583	117873	117873	Continuing	Continuing

C. Acquisition Strategy: The Soldier Enhancement Program (SEP) focuses on developmental initiatives and integration efforts that lend themselves to accelerated acquisition and fielding in the near term (within three years). New SEP candidates are reviewed and approved annually. SEP items are procured from multiple appropriations, i.e., OMA, OPA, WTCV, and PAA.

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 668		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPR	SBCCOM, MA	4508	496	1Q	485	1Q	550	1Q	0	6039	0
b . Various	MIPR	PM-SA, NJ	13838	4262	1Q	2138	1Q	3696	1Q	0	23934	0
c . Various	MIPR	ERDEC, Edgewood, MD	598	450	1Q	400	1Q	380	1Q	0	1828	0
d . Contracts	Various	SBCCOM, MA	1822	391	2Q	250	3Q	420	2Q	0	2883	0
Subtotal:			20766	5599		3273		5046		0	34684	0
Remarks: Candidates for the Soldier Enhancement Program are received, reviewed, and approved annually. Contractual efforts primarily are focused on procuring prototypes for testing.												
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPR	TSM-SDR, GA	631	227	1Q	230	1Q	235	1Q	0	1323	0
b . Various	Contracts	Various	9073	1685	3Q	1390	2Q	2629	3Q	0	14777	0
c . DCD Support - Military Police	MIPR	GSA/FEDLEARN	324	130	1Q	145	1Q	150	1Q	0	749	0
d . Logistics Support	MIPR	Army Logistics Support Activity	123	55	1Q	60	1Q	65	1Q	0	303	0

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 668		
II. Support Cost (continued)	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
e . DCD Support	MIPR	Armor School, KY	108	0		0		0		0	108	0
f . Various	MIPR	West Point, NY	329	0		0		0		0	329	0
g . Various	MIPR	NVEOD, VA	338	1289	1Q	1222	1Q	0		0	2849	0
h . Various	MIPR	AMCOM, AL	50	0		0		0		0	50	0
Subtotal:			10976	3386		3047		3079		0	20488	0
Remarks: Support costs vary annually depending on the type of items we are evaluting. Research Development and Engineering Centers support to evaluate items also varies annually depending on the number and types of items.												
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPR	SBCCOM(OFIG), Natick, MA	75	50	2Q	50	3Q	50	3Q	0	225	0
b . Various	MIPR	OPTEC/ATEC	2951	1620	2Q	1580	2Q	1695	1Q	0	7846	0
Subtotal:			3026	1670		1630		1745		0	8071	0
Remarks: Testing costs vary annually by item(s) and are primarily funded by customers using the program dollars we send to them.												

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT 668		
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . In-House		PM-Soldier Equipment, Fort Belvoir, VA	5741	2855	1Q	2194	1Q	2129	1Q	0	12919	0
Subtotal:			5741	2855		2194		2129		0	12919	0
Remarks: Costs vary annually depending on number and type of items being evaluated.												
Project Total Cost:			40509	13510		10144		11999		0	76162	0

Schedule Profile Detail (R-4a Exhibit)							February 2003	
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT 668
<u>Schedule Detail</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
M203 Grenade Launched Rail System: achieve MS C and transition to production.		2Q						
M240B Combat Ammunition Pack: achieve MS C and transition to production.		1Q						
Tactical Assault Ladder System: achieve MS C and transition to production.		3Q						
Collapsible Grappling Hook: achieved MS C and transitioned to production.	4Q							
Concealable Stab Protective Body Armor: achieved MS C and transitioned to production.	4Q							
Family of Batons and Night Sticks: achieved MS C and transitioned to production.	3Q							
Survival Egress Air (SEA) MK 2.0: achieved MS C and transitioned to production.	4Q							
M84 Reloadable Fuze: achieve MS C and transition to production.		2Q						
Individual Riot Control Agent Disperser: achieve MS C and transition to production.		3Q						
Combat Uniform for Soldiers: achieve MS C and transition to production.		3Q						
Tactical Thigh Holster: achieve MS C and transition to production.		2Q						
Aircrew Survival/Egress Knife: achieve MS C and transition to production.		4Q						
Improved Combat Shelter: achieve MS C and transition to production.		4Q						
Close Combat Mission Capability Kit: achieve MS C and transition to production.			3Q					
M9 Pistol Rail: achieve MS C and transition to production.			3Q					

Schedule Profile Detail (R-4a Exhibit)							February 2003	
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT 668
Schedule Detail (continued)	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Collapsible Buttstock for M249 Machine Gun: achieve MS C and transition to production.			3Q					
Hand Thrown Stingball Grenade: achieve MS C and transition to production.			3Q					
Face Paint (Stick): achieve MS C and transition to production.			3Q					
Glove Light Duty Utility: achieve MS C and transition to production.				3Q				
Water Purification Pen: achieve MS C and transition to production.				3Q				
Standoff Blast Resistant Footwear System: achieve MS C and transition to production.				3Q				
Infantry Wall Breaching Kit: achieve MS C and transition to production.				3Q				
NOTE: Numerous individual projects are ongoing under the Soldier Enhancement Program (SEP) and each project has its own milestone schedule.								

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT C40			
COST (In Thousands)		FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
C40	SOLDIER SUPPORT EQUIPMENT - ED	11083	12197	2891	21	0	0	0	0	0	34828
<p>A. Mission Description and Budget Item Justification: This project supports the system development and demonstration and integration of field shelters, showers, latrines, heaters, environmental control units, mortuary affairs, organizational equipment, and other combat service support equipment to improve unit sustainability and combat effectiveness. Project supports development and type classification of personnel and cargo parachutes, airdrop containers and other aerial delivery equipment to improve safety and efficiency of airborne operations. Project supports development of tactical field shelters including a series of Rigid Wall Shelters (RWS) with added capabilities and enhanced survivability. This project develops critical enablers that support the Army's Transformation Campaign Plan Axes I (Trained and Ready), Line of Operation 2 (Modernization) by maintaining readiness through fielding and integrating new equipment. Also includes, Line of Operation 3 (Manning the Force) by ensuring Army forces are capable of rapid deployment through aerial delivery initiatives and by reducing sustainment requirements, related Combat Support/Combat Service Support (CS/CSS) demands in lift, combat zone footprint, and costs for logistical support.</p> <p>This project develops critical enablers that support the Legacy-to-Objective transition path of the Transformation Campaign Plan (TCP).</p>											
Accomplishments/Planned Program							FY 2002	FY 2003	FY 2004	FY 2005	
Completed developmental testing and conduct program review for Advanced Tactical Parachute System (ATPS).							1404	1300	0	0	
Conduct operational testing and program review for ATPS.							257	488	1000	0	
Procure Operational Test items for ATPS.							1319	740	0	0	
Procured test items for the Developmental Testing of Phase II ATPS (30 ea @ \$4,000).							120	0	0	0	
Purchase data rights for ATPS.							0	747	1308	0	
Conduct Milestone C for ATPS.							0	0	583	21	
Conduct Developmental Testing for the 500 ft. Low Velocity Airdrop System (LVADS).							0	2620	0	0	
Planned and conducted Down-Select Testing on the 500 ft. LVADS.							1057	0	0	0	
Procured test items for the Down-Select Testing of 500 ft. LVADS.							890	0	0	0	
Procure Test items for 500 ft. LVADS Developmental Testing.							0	890	0	0	
Obtained Milestone C Type Classification - Standard and Material Release for the Containerized Chapel.							500	0	0	0	
FY 02 completed Full-Rate Production Decision for Space Heater Small. FY03 Conduct Technical Testing on Space Heater Large.							600	1500	0	0	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)			February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment			PROJECT C40	
<u>Accomplishments/Planned Program (continued)</u>		<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	
Conduct Developmental Testing on the Enhanced Container Delivery System (ECDS).		0	1482	0	0	
Procured Test items (liners, Frame/pole interface, and Plenum) for the Modular General Purpose Tent System (MGPTS) P3I (10 complete systems @ \$25K ea). Initiate system Testing and Evaluation.		558	0	0	0	
Investigate and evaluate airbeam technology and composite materials for potential employment in the Lightweight Maintenance Enclosure (LME) P3I and Tent, Extendable, Modular, Personnel, (TEMPER). Develop and evaluate LME P3I enhancements.		550	500	0	0	
Conducted Milestone B, fabricated prototypes (3 @ 250K ea) initiated testing on the Containerized Batch Laundry (CBL).		1500	0	0	0	
Type Classify CBL (MS C) and initiate water recycling product improvements.		0	1500	0	0	
Conduct Testing and Evaluation of MGPTS P3I components and transition into production.		0	430	0	0	
Procured Large Capacity Field Heater Developmental Test items.		228	0	0	0	
Procured Authorized Stockage List Mobility System (ASL-Mobility) Developmental Test items.		2100	0	0	0	
Totals		11083	12197	2891	21	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								February 2003		
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT C40	
<u>B. Other Program Funding Summary</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>	<u>To Compl</u>	<u>Total Cost</u>
RDTE, 0603747.C09, Soldier Support Equipment - AD	6674	11344	1352	0	0	0	0	0	0	19370
MA8061, Lightweight Maintenance Enclosure	6590	8494	7577	7159	5990	8733	12160	12148	13000	81851
M82708, Containerized Batch Laundry (CBL)	0	2927	3913	3905	0	0	0	0	0	10745
<p><u>C. Acquisition Strategy:</u>Provides for system integration and initial operational test and evaluation followed by a transition into production.</p>										

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT C40		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . SBCCOM	MIPR	SBCCOM (NRDEC), Natick, MA	7450	2000	1-4Q	0		0		2522	11972	9665
b . Contracts	Various	Various	16700	3900	2Q	0		0		9606	30206	30549
Subtotal:			24150	5900		0		0		12128	42178	40214
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
Subtotal:			0	0		0		0		0	0	0

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT C40		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . TECOM/OEC	MIPR	Various	14383	5692	1-4Q	2452	3Q	0		4551	27078	25208
Subtotal:			14383	5692		2452		0		4551	27078	25208
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Program Management	In-House	PM Force Sustainment Systems, Natick	2200	605	1-4Q	0		0		1562	4367	4479
b . Program Managment	In-House	PM Soldier, Fort Belvoir, VA	0	0		439	1Q	21	1Q	0	460	0
Subtotal:			2200	605		439		21		1562	4827	4479
Project Total Cost:			40733	12197		2891		21		18241	74083	69901

Schedule Profile Detail (R-4a Exhibit)							February 2003	
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment			PROJECT C40	
<u>Schedule Detail</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Completed testing and conducted MS B for Advanced Tactical Parachute System.	2Q							
Conduct MS C for Advanced Tactical Parachute System.			4Q					
Obtained MS C, Standard and Material Release for the Containerized Chapel.	4Q							
Conducted MS B for the Authorized Stockage List Mobility System.	4Q							
Conduct MS B for 60k British Thermal Unit Space Heater Convective.		3Q						
Conducted MS B, fabricated prototypes and initiated testing on the Containerized Batch Laundry.	2Q							
Conduct MS C for Containerized Batch Laundry.		3Q						
Awarded R&D/Production contract for Authorized Stockage List Mobility System.	4Q							

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								February 2003		
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT L40		
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
L40 CLOTHING & EQUIPMENT	4889	1310	3100	4451	8013	9008	9242	9164	0	54294
<p>A. Mission Description and Budget Item Justification:The funding in this project support development of state-of-the-art individual clothing and equipment to improve the survivability, mobility, and sustainment affecting the quality of life of the individual soldier.</p> <p>This project supports the Legacy-to-Objective transition path of the Army's Transformation Campaign Plan.</p>										
Accomplishments/Planned Program						FY 2002	FY 2003	FY 2004	FY 2005	
Identified integration opportunities for the Advanced Combat Helmet and collaborated with NATO nations on functional trade-offs.						370	0	0	0	
Procure test items and initiate integration efforts for the Advanced Combat Helmet and award developmental contract.						0	185	0	0	
Conduct operational testing, achieve Milestone C, and initiate production for the Advanced Combat Helmet and complete integration efforts.						0	0	150	0	
Complete developmental contract and initiate operational testing for the Advanced Combat Uniform.						0	0	0	2895	
Type Classify limited, initiated production for the Advanced Bomb Suit, and achieved Milestone C.						300	0	0	0	
Complete user evaluation, laser integration, and commence operational testing for Military Eye Protection System.						0	416	0	0	
Military Eye Protection System: complete operational testing, achieve Milestone C, and initiate production.						0	0	1500	0	
Concealable Body Armor: completed testing, achieved Milestone C, and initiated production.						227	0	0	0	
Aircrew Battle Dress Uniform P3I: conducted and completed user evaluation, and amended ABDU performance specification as required.						210	0	0	0	
Alternative Fabric for Extended Cold Weather Clothing System: migrate fabric alternatives to related wet weather gear.						0	80	0	0	
Update fabrics, style changes, and consolidate dress clothing for Joint Services, and as approved by the Army Uniform Board.						328	564	500	300	
Modular Sleeping Bag System P3I: conducted market survey, evaluated commercially available candidates submitted against specification performance requirements.						220	0	0	0	
Modular Sleeping Bag System P3I: conduct user evaluation of new concepts for soldier acceptance, and achieve Milestone C.						0	65	0	0	

ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2A Exhibit)								February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT L40			
<u>Accomplishments/Planned Program (continued)</u>								FY 2002	FY 2003	FY 2004	FY 2005
In-house engineering support services, computer services, and conduct technical evaluation and program reviews.								3234	0	950	1256
Totals								4889	1310	3100	4451
<u>B. Other Program Funding Summary</u>	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost	
RDTE, 0603747.669, Clothing & Equipment	46381	4645	8864	8366	8176	8201	9438	9633	Continuing	Continuing	
OMA, 121017, Central Funding and Fielding	90013	73401	86050	87492	91526	115583	117873	103185	Continuing	Continuing	
<p><u>C. Acquisition Strategy:</u> Soldier modernization will be accomplished by various methods. Acquisition strategies will vary from: 1) quick fixes in 36 months or less from concept to Type Classification (TC) similar to Soldier Enhancement Programs (SEP), 2) modular improvements which require limited RDT&E and will be completed in more than 36 months from concept to Type Classification, 3) fully integrated development that will require substantial RDT&E funding and will be completed in 4 years or more.</p>											

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT L40		

I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPRS	SBCCOM, Natick, MA	2607	807	1Q	1745	1Q	1315	1Q	Continue	6474	Continue
b . Various	Contracts	Various	2851	303	3Q	105	2Q	750	2Q	Continue	4009	Continue
Subtotal:			5458	1110		1850		2065		Continue	10483	Continue

Remarks: Product development costs vary annually depending on the number and types of programs being evaluated.

II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Misc Support	MIPR	Various	246	50	1Q	100	1Q	100	1Q	0	496	0
Subtotal:			246	50		100		100		0	496	0

Remarks: Support Costs vary annually depending on number of and types of programs being evaluated.

ARMY RDT&E COST ANALYSIS(R-3)									February 2003			
BUDGET ACTIVITY 5 - System Development and Demonstration					PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment					PROJECT L40		
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	MIPRS	ATEC	1461	100	3Q	150	2Q	980	3Q	0	2691	0
b . Various	MIPRS	SBCCOM (OFIG), Natick, MA	205	50	1Q	50	2Q	50	2Q	0	355	0
Subtotal:			1666	150		200		1030		0	3046	0
Remarks: Testing costs vary annually by item.												
IV. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Target Value of Contract
a . Various	In-House	PM Soldier, Ft. Belvoir, VA	6059	0	1Q	950	1Q	1256	1Q	Continue	8265	Continue
Subtotal:			6059	0		950		1256		Continue	8265	Continue
Remarks: Management Services costs vary annually depending on the number and types of programs being evaluated.												
Project Total Cost:			13429	1310		3100		4451		Continue	22290	Continue

Schedule Profile Detail (R-4a Exhibit)							February 2003	
BUDGET ACTIVITY 5 - System Development and Demonstration				PE NUMBER AND TITLE 0604713A - Combat Feeding, Clothing, and Equipment				PROJECT L40
<u>Schedule Detail</u>	<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>FY 2005</u>	<u>FY 2006</u>	<u>FY 2007</u>	<u>FY 2008</u>	<u>FY 2009</u>
Advanced Combat Helmet: achieve MS C, and intitiate production.		4Q						
Advanced Bomb Suit: achieve MS C, Type Classify Limited, and initiated production.	3Q							
Military Eye Protection System: achieve MS C, and initiate production.			2Q					
Advanced Combat Uniform achieved MS C and initiate prodction				4Q				
A Life Cycle System Review is held during the 2nd and 4th quarter of each fiscal year.								